



*Consulting Engineers  
and Scientists*

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August 6, 2012  
(PBW Project No. 1651)

VIA ELECTRONIC MAIL AND FEDERAL EXPRESS

Mr. Chris Villarreal  
Remedial Project Manager, 6SF-RA  
U.S. Environmental Protection Agency Region 6  
1445 Ross Avenue  
Dallas, Texas 75202

Re: Bi-Monthly Progress Report, R&H Oil/Tropicana Energy Site, San Antonio, Texas

Dear Mr. Villarreal:

Pursuant to Section IX, Paragraph 37 of the Administrative Settlement Agreement and Order on Consent for Remedial Investigation/Feasibility Study (Settlement Agreement) for the above-referenced Site, Pastor, Behling & Wheeler, LLC (PBW) has prepared this bi-monthly progress report on behalf of the Respondents named in the Settlement Agreement. In accordance with the Settlement Agreement requirements, this progress report addresses the topics listed below:

1. Actions which have been taken to comply with the Settlement Agreement during the preceding two-month period – The following actions were taken during the previous two-month period:
  - Laboratory analytical data were validated in accordance with the project Quality Assurance Project Plan (QAPP).
  - The Draft Screening Level Ecological Risk Assessment was prepared (submitted to EPA on August 1).
  - Preparation of the Remedial Investigation (RI) Report was initiated.
  - Site-wide groundwater gauging and light non-aqueous phase liquid (LNAPL) thickness measurement events were conducted on June 6 and July 7, 2012. The results of the gauging events are provided in Tables 1 and 2.
  - A LNAPL baildown test was conducted at well MW-13, initiated July 7 and measurements collected July 9, July 11, July 13, and July 16.
2. Quality-assured results of sampling, tests and all other quality-assured data received by Respondents during the preceding two-month period – The following quality-assured data were received during the preceding two month period:
  - Analytical data were received and data validation completed for the groundwater and soil samples collected in May following the site-wide groundwater sampling

event and installation of off-site monitoring wells. The laboratory analytical reports and the data validation reports are provided in digital format on the included CD.

3. Work planned for next two months with schedules relating such Work to the overall project schedule for RI/FS completion – The following work is planned for the next two months:

- Preparation of the RI Report will be continued.
- Preparation of the Baseline Risk Human Health Assessment (BHHRA) will be initiated.
- Preparation of the Feasibility Study (FS) will be initiated.

The planned schedule for this work is generally consistent with the overall RI/FS schedule provided in the approved RI/FS Work Plan.

4. Problems encountered, anticipated problems, actual or anticipated delays, and solutions developed and implemented to address any actual or anticipated problems or delays – No problems or delays were encountered or anticipated during the preceding two-month period.

Thank you for the opportunity to submit this progress report. Should you have any questions, please do not hesitate to contact me.

Sincerely,

PASTOR, BEHLING & WHEELER, LLC



Eric F. Pastor P.E.  
Principal Engineer



Tim Nickels  
Project Scientist

Attachments:

Table 1 Monitoring Well Gauging Summary – June 6, 2012

Table 2 Monitoring Well Gauging Summary – July 7, 2012

Data CD:

Laboratory Data Package J54839 (Groundwater)

Laboratory Data Package J54909 (Groundwater)

Laboratory Data Package J54676 (Soil)

Data Validation Report for Groundwater

Data Validation Report for Soils

Access/Scribe Database

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cc: Marilyn Long – TCEQ  
Leslie Alexander – de maximis, inc.  
Lee Bishop – Exxon Mobil Corporation  
Heather Corken – Fulbright & Jaworski, LLP  
Gary Elkin – BAE Systems Resolution, Inc.  
Jack Healy – Perkin Elmer Automotive Research, Inc.  
Heidi Hughes Bumpers – Jones Day  
Paul Kirkpatrick – Structural Metals, Inc.  
Larry King – Flint Group Incorporated  
Earl Moran – Exxon Mobil Corporation  
James Morriss, III – Thompson & Knight, LLP  
Duane Ness – Flint Group Incorporated  
Mary Smith - Office of the Attorney General of Texas  
Robert Sterrett – Itasca Denver, Inc.  
Rudy Valdes – National Radiator  
Elizabeth Webb – Thompson & Knight, LLP

**TABLE 1**  
**Monitoring Well Gauging Summary - June 6, 2012**  
R&H Oil Company/Tropicana Energy Superfund Site, San Antonio, Texas

Well ID	Date	Screen Interval (ft, BGS)	Measuring Point Elevation (ft, MSL)	Depth to Water (ft, BMP)	Depth to NAPL (ft, BMP)	NAPL Thickness (ft)	Water Level Elevation (ft, MSL)	Corrected Water Level Elevation (ft, MSL)
MW-1	6/6/2012	10-40	657.29	18.49	ND	--	638.80	638.80
MW-2	6/6/2012	11-42	659.25	20.60	ND	--	638.65	638.65
MW-3	6/6/2012	10-48	657.34	19.08	18.55	0.53	638.26	638.67
MW-4	6/6/2012	10-44	660.21	21.27	ND	--	638.94	638.94
MW-5	6/6/2012	10.5-43	656.93	18.23	18.18	0.05	638.70	638.74
MW-6	6/6/2012	10-54.5	656.95	18.55	18.27	0.28	638.40	638.62
MW-7	6/6/2012	30-45	655.13	16.60	ND	--	638.53	638.53
MW-8	6/6/2012	30-45	654.42	16.25	ND	--	638.17	638.17
MW-9	6/6/2012	25-40	654.17	15.73	ND	--	638.44	638.44
MW-10	6/6/2012	23-38	653.57	15.25	ND	--	638.32	638.32
MW-11	6/6/2012	25-40	654.55	15.99	ND	--	638.56	638.56
MW-12	6/6/2012	10-25	659.90	20.61	ND	--	639.29	639.29
MW-13	6/6/2012	10-25	662.65	24.82	23.41	1.41	637.83	638.93
MW-14	6/6/2012	10-25	660.17	21.52	21.17	0.35	638.65	638.92
MW-15	6/6/2012	10-25	659.94	21.14	21.04	0.1	638.80	638.88
MW-16	6/6/2012	10-25	659.20	20.59	ND	--	638.61	638.61
MW-17	6/6/2012	10-25	659.23	20.65	ND	--	638.58	638.58
MW-18	6/6/2012	10-25	660.60	21.57	ND	--	639.03	639.03
MW-19	6/6/2012	10-25	658.37	19.88	19.74	0.14	638.49	638.60
MW-20	6/6/2012	10-30	659.38	20.60	ND	--	638.78	638.78
MW-21	6/6/2012	8-23	654.19	15.77	ND	--	638.42	638.42
MW-22	6/6/2012	10-25	654.07	15.95	ND	--	638.12	638.12
NMW-1	6/6/2012	10-25	662.30	23.19	23.05	0.14	639.11	639.22
NMW-2	6/6/2012	10-25	660.61	21.88	ND	--	638.73	638.73
NMW-3	6/6/2012	10-25	660.63	23.75	21.36	2.39	636.88	638.74
NMW-4	6/6/2012	10-25	660.99	22.00	ND	--	638.99	638.99
NMW-5	6/6/2012	10-25	660.45	21.55	ND	--	638.90	638.90

Notes:

1. Water levels in wells containing LNAPL were corrected using an LNAPL specific gravity of 0.78 as determined from analysis of LNAPL collected at well NMW-3.
2. ND - Measurable LNAPL thickness not greater than 0.01 feet. MSL = Mean sea level.
3. BMP = Below measuring point. BGS = Below ground surface.

**TABLE 2**  
**Monitoring Well Gauging Summary - July 7, 2012**  
R&H Oil Company/Tropicana Energy Superfund Site, San Antonio, Texas

Well ID	Date	Screen Interval (ft, BGS)	Measuring Point Elevation (ft, MSL)	Depth to Water (ft, BMP)	Depth to NAPL (ft, BMP)	NAPL Thickness (ft)	Water Level Elevation (ft, MSL)	Corrected Water Level Elevation (ft, MSL)
MW-1	7/7/2012	10-40	657.29	19.91	ND	--	637.38	637.38
MW-2	7/7/2012	11-42	659.25	22.05	ND	--	637.20	637.20
MW-3	7/7/2012	10-48	657.34	23.25	19.27	3.98	634.09	637.19
MW-4	7/7/2012	10-44	660.21	22.72	ND	--	637.49	637.49
MW-5	7/7/2012	10.5-43	656.93	19.89	19.64	0.25	637.04	637.24
MW-6	7/7/2012	10-54.5	656.95	20.14	19.68	0.46	636.81	637.17
MW-7	7/7/2012	30-45	655.13	18.07	ND	--	637.06	637.06
MW-8	7/7/2012	30-45	654.42	17.50	ND	--	636.92	636.92
MW-9	7/7/2012	25-40	654.17	17.20	ND	--	636.97	636.97
MW-10	7/7/2012	23-38	653.57	16.74	ND	--	636.83	636.83
MW-11	7/7/2012	25-40	654.55	17.45	ND	--	637.10	637.10
MW-12	7/7/2012	10-25	659.90	22.55	22.54	0.01	637.35	637.36
MW-13	7/7/2012	10-25	662.65	26.12	24.59	1.53	636.53	637.72
MW-14	7/7/2012	10-25	660.17	23.03	22.6	0.43	637.14	637.48
MW-15	7/7/2012	10-25	659.94	22.67	22.37	0.3	637.27	637.50
MW-16	7/7/2012	10-25	659.20	22.05	ND	--	637.15	637.15
MW-17	7/7/2012	10-25	659.23	22.13	22.11	0.02	637.10	637.12
MW-18	7/7/2012	10-25	660.60	22.95	ND	--	637.65	637.65
MW-19	7/7/2012	10-25	658.37	21.60	21.06	0.54	636.77	637.19
MW-20	7/7/2012	10-30	659.38	22.02	ND	--	637.36	637.36
MW-21	7/7/2012	8-23	654.19	17.24	ND	--	636.95	636.95
MW-22	7/7/2012	10-25	654.07	17.43	ND	--	636.64	636.64
NMW-1	7/7/2012	10-25	662.30	24.07	23.89	0.18	638.23	638.37
NMW-2	7/7/2012	10-25	660.61	23.34	ND	--	637.27	637.27
NMW-3	7/7/2012	10-25	660.63	25.77	22.35	3.42	634.86	637.53
NMW-4	7/7/2012	10-25	660.99	23.31	ND	--	637.68	637.68
NMW-5	7/7/2012	10-25	660.45	22.99	ND	--	637.46	637.46

Notes:

1. Water levels in wells containing LNAPL were corrected using an LNAPL specific gravity of 0.78 as determined from analysis of LNAPL collected at well NMW-3.
2. ND - Measurable LNAPL thickness not greater than 0.01 feet. MSL = Mean sea level.
3. BMP = Below measuring point. BGS = Below ground surface.